

What Is Claimed Is:

1 1. A method to facilitate accessing communication queues using a
2 public network, comprising:
3 generating a message at a client;
4 formatting the message in a publicly available format;
5 communicating the message across the public network to a web server;
6 receiving the message at the web server;
7 transforming the message to a database specific format; and
8 passing the message to a queue within a database server across a
9 proprietary network.

1 2. The method of claim 1, wherein the publicly available format
2 includes extensible markup language (XML).

1 3. The method of claim 1, wherein communicating the message
2 across the public network includes communicating with one of, hypertext transfer
3 protocol (HTTP), simple mail transfer protocol (SMTP), and file transfer protocol
4 (FTP), whereby the message can be communicated across a firewall.

1 4. The method of claim 1, further comprising sending the message
2 from the queue to a recipient.

1 5. The method of claim 1, further comprising publishing the message
2 from the queue to a list of recipients.

1 6. The method of claim 1, further comprising requesting to receive a
2 stored message from the queue.

1 7. The method of claim 1, further comprising registering to receive
2 notification of new messages from the queue.

1 8. The method of claim 1, wherein the client is a second queue in a
2 second database.

1 9. The method of claim 1, wherein the public network is the Internet.

1 10. The method of claim 1, further comprising authenticating the client
2 to the web server.

1 11. The method of claim 1, further comprising guaranteeing
2 transactional integrity of a transaction including multiple round trips, wherein
3 operations of the transaction are committed and aborted as a unit.

1 12. The method of claim 1, further comprising guaranteeing exactly
2 once delivery of the message during propagation from a first queue to a second
3 queue, whereby exactly once delivery is ensured by using a sequence number and
4 not by a two phase commit.

1 13. A computer-readable storage medium storing instructions that
2 when executed by a computer cause the computer to perform a method to
3 facilitate accessing communication queues using a public network, the method
4 comprising:

5 generating a message at a client;
6 formatting the message in a publicly available format;
7 communicating the message across the public network to a web server;
8 receiving the message at the web server;
9 transforming the message to a database specific format; and
10 passing the message to a queue within a database server across a
11 proprietary network.

1 14. The computer-readable storage medium of claim 13, wherein the
2 publicly available format includes extensible markup language (XML).

1 15. The computer-readable storage medium of claim 13, wherein
2 communicating the message across the public network includes communicating
3 with one of, hypertext transfer protocol (HTTP), simple mail transfer protocol
4 (SMTP), and file transfer protocol (FTP), whereby the message can be
5 communicated across a firewall.

1 16. The computer-readable storage medium of claim 13, the method
2 further comprising sending the message from the queue to a recipient.

1 17. The computer-readable storage medium of claim 13, the method
2 further comprising publishing the message from the queue to a list of recipients.

1 18. The computer-readable storage medium of claim 13, the method
2 further comprising requesting to receive a stored message from the queue.

1 19. The computer-readable storage medium of claim 13, the method
2 further comprising registering to receive notifications from the queue.

1 20. The computer-readable storage medium of claim 13, wherein
2 messages are propagated from a first queue to a second queue.

1 21. The computer-readable storage medium of claim 13, wherein the
2 public network is the Internet.

1 22. The computer-readable storage medium of claim 13, the method
2 further comprising authenticating the client to the web server.

1 23. The computer-readable storage medium of claim 13, the method
2 further comprising proxying as a database user by the web server on behalf of an
3 Internet user.

1 24. An apparatus to facilitate accessing communication queues using a
2 public network, comprising:
3 a generating mechanism that is configured to generate a message at a
4 client;
5 a formatting mechanism that is configured to format the message in a
6 publicly available format;
7 a communicating mechanism that is configured to communicate the
8 message across the public network to a web server;
9 a receiving mechanism that is configured to receive the message at the
10 web server;

11 a transforming mechanism that is configured to transform the message to a
12 database specific format; and
13 a passing mechanism that is configured to pass the message to a queue
14 within a database server across a proprietary network.

1 25. The apparatus of claim 24, wherein the publicly available format
2 includes extensible markup language (XML).

1 26. The apparatus of claim 24, wherein communicating the message
2 across the public network includes communicating with one of, hypertext transfer
3 protocol (HTTP), simple mail transfer protocol (SMTP), and file transfer protocol
4 (FTP), whereby the message can be communicated across a firewall.

1 27. The apparatus of claim 24, further comprising a sending
2 mechanism that is configured to send the message from the queue to a recipient.

1 28. The apparatus of claim 24, further comprising a publishing
2 mechanism that is configured to publish the message from the queue to a list of
3 recipients.

1 29. The apparatus of claim 24, further comprising a requesting
2 mechanism that is configured to request receiving a stored message from the
3 queue.

1 30. The apparatus of claim 24, further comprising a registering
2 mechanism that is configured to register to receive notifications from the queue.

1 31. The apparatus of claim 24, wherein the client is a second queue in
2 a second database.

1 32. The apparatus of claim 24, wherein the public network is the
2 Internet.

1 33. The apparatus of claim 24, wherein exactly once delivery of
2 messages to a second queue is guaranteed across the public network, whereby the
3 public network handles recovery from network and database failures.

1 34. The apparatus of claim 24, further comprising an authenticating
2 mechanism that is configured to authenticate the client to the web server.